

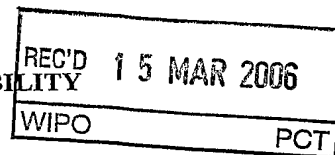
PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference 2004/02 PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/US05/08989	International filing date (day/month/year) 18 March 2005 (18.03.2005)	Priority date (day/month/year) 22 March 2004 (22.03.2004)
International Patent Classification (IPC) or national classification and IPC IPC(7): D01F 6/00; B32B 5/02, 27/12, 27/04 and US Cl.: 428/364, 375; 442/93,94		
Applicant INVISTA NORTH AMERICA		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:

a. ☐ (sent to the applicant and to the International Bureau) a total of ___ sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☒ Box No. VIII Certain observations on the international application

Date of submission of the demand

14 October 2005 (14.10.2005)

Date of completion of this report

18 January 2006 (18.01.2006)

Name and mailing address of the IPEA/ US

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Box No. I Basis of the report1. With regard to the **language**, this report is based on:

- ☐ the international application in the language in which it was filed.
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4(a))
- ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- ☒ the international application as originally filed/furnished
- ☒ the description:
pages 1-9 as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☒ the claims:
pages 10 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☐ the drawings:
pages NONE as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/figs NONE
- ☒ the sequence listing (*specify*): NONE
- ☒ any table(s) related to the sequence listing (*specify*): NONE

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/US05/08989**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims <u>NONE</u>	YES
	Claims <u>1-8</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-8</u>	NO
Industrial Applicability (IA)	Claims <u>1-8</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and Explanations (Rule 70.7)

Claims 1-8 lack an inventive step under PCT Article 33(3) as being obvious over Hancock (US 663087) in combination Applicant admission at page 2 of spec.

Hancock teaches a fabric (include any and all fabric) made from yarn which is made from filament(s) have a coating of halogenated (fluorochemicals) polymer. Hancock further teaches the filaments are be made from polyesters, poly-olefins, polyamides and others polymers.

Hancock still further teaches the filaments have a contact angle (or water contact angle) of 90 degrees. Hancock is silent to wick performance and so called static Voltage (operating range) of +/- 400 volts.

Applicant admission on page 2 of the spec it is well known if the art the fabrics made of polyester yarn having fluorochemical finishes have a wicking performance of 6.4mm and a static voltage range greater than 400 volts.

Therefore, it would have been obvious to one of ordinary skill in the art that the fluorochemical coated fabric, as taught by Hancock, have a reasonable expectation of success of possessing the claimed wicking performance and static voltage ,as taught by Applicant admission. Hence obviousness is met.

Claims 1-8 meet the criteria set out in PCT Article 33(4), and thus the filament yarn and fabric have industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US05/08989

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1 and 5 "static voltage of +/-400 volts" is vague, indefinite and misleading. As written in the claim it appears the filament yarn or fabric has the static voltage of +/-400 VOLTS. Reading the claims in light of the spec at page 2 and page 8 "static voltage" as claimed is a static operating range of voltage (+/-400 volts) use to measure static voltage running in a yarn with a voltmeter. Correction is required.